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DATA FROM THE COMMERCIAL FISHERY FOR LAKE WHITEFISH, *Coregonus clupeaformis* (Mitchill), ON GREAT SLAVE LAKE, NORTHWEST TERRITORIES, 1988, 1989 AND 1990

by

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ABSTRACT

Low, G. and C.J. Read. 1993. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1988, 1989 and 1990. Can. Data Rep. Fish. Aquat. Sci. 898: v + 54 p.

Data from the fish plant sampling program and fishery observations on the Great Slave Lake are presented. Production figures for whitefish and other species are shown. A total of 6 681 lake whitefish were sampled for length, weight and age. 5 151 nets (468 741 metres) were observed for catch and effort during the fishery observation program.

Key words: catch composition; catch/effort; commercial fishing; fishery management; monitoring.

RESUME

Low, G. and C.J. Read. 1993. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1988, 1989 and 1990. Can. Data Rep. Fish. Aquat. Sci. 898: v + 54 p.

Le rapport présente des données sur le programme d'échantillonnage a l'usine de transformation du poisson et sur les observations des pèches commerciales dans le Grand lac des Esclaves. On y donne les chiffres de production pour la corégone et d'autres espèces. Les données sur l'age, la longueur et le poids ont été recueillies a partir d'un échantillon de 6 681 grands corégones. Le programme d'observation des pèches commerciales d'hiver a été fait sur 5 151 filets (468 741 metres) et portait sur les prises et l'effort.

Mots-clés: composition des prises; prise/effort; pèche commerciale; gestion des pèches; contrôle.

INTRODUCTION

Commercial fishing first began on Great Slave Lake in 1945. Since then the fishery has been monitored annually for total catch; however, few studies were conducted on the effects of exploitation on the stocks of the commercial species (Rawson 1951, 1953a; Keleher 1972; Kennedy 1956) until the 1970's.

In 1971, the Department of Fisheries began a long term stock assessment and monitoring program designed to collect information considered essential for the sound management of the Great Slave Lake commercial fishery. These programs are consistent with the recommendation of the Great Slave Lake Working Party (1969) outlined in Roberge et al. (1982).

In order to meet these objectives, a three-component field study was implemented including fish plant sampling, fishery observations and experimental gillnetting. Results of this work for the years 1972 to 1987 have been described by Bond (1974a, b, 1975a, b), Bond and Turnbull (1973), Moshenko et al. (1978, 1981), Moshenko and Low (1978a, b, 1979, 1980) Roberge et al. (1982, 1984), Low and Read (1987) and Low et al. (1989).

Two components, fish plant sampling and fishery observations, were carried out during these three years. This report summarizes, in tabular form the data gathered from each of these two components.

STUDY AREA

Great Slave Lake lies in the southwest corner of the District of Mackenzie, Northwest Territories (Fig. 1). It is the fifth largest lake in North America, having a surface area of 27 195 km^2 and a drainage area of 985 300 km^2. Stretching 440 km from its extreme east end to the outlet of the Mackenzie River, the lake straddles two physiographic regions. The northeast shore of the north arm and the east arm lie within the Precambrian Shield and have irregular, precipitous margins. The western portion of the lake overlies the alluvial plain known as the Mackenzie Lowlands and has few islands and gently sloping shores. The rivers entering the lake from the shield are cold, clear and rapidly flowing while those entering from the south are slow flowing brown water streams laden with silt during spring and early summer. While the western basin has a maximum depth of approximately 165 m and a mean depth of 42 m, a depth of 625 m has been recorded in the east arm (Rawson 1950). Physical and biological characteristics of the lake have been described in detail by Rawson (1950, 1951, 1953a, b).

DESCRIPTION OF THE FISHERY

Great Slave Lake has been fished commercially since 1945. During the 1950's annual production of whitefish and trout averaged 2.9 million kg as the large accumulated stock was exploited. Since the 1950's commercial production of both species has decreased annually and whitefish and trout have reacted differently to exploitation (Keleher 1972). The west end of the lake is now being managed for whitefish production with minimal regard to lake trout, the latter being unable to withstand commercial gillnetting. Gillnets have been the sole means of exploitation by the commercial fishery since its inception. The legal minimum mesh size was 139 mm stretched mesh until regulation changes in 1977 allowed the use of 133 mm mesh as the legal minimum mesh size. There has been no restriction on the number of nets a fisherman may use since 1961. Almost the entire lake has been open to commercial fishing at some point in the history of the fishery, although certain areas have been closed to protect subsistence and sport fisheries (Fig. 1 and Northwest Territories Fishery Regulations 1985). The east arm of Great Slave Lake (Area VI) was completely closed to commercial fishing in 1974 and is being managed exclusively for subsistence and sport fishing (Moshenko and Gillman 1978).

There are at least 25 fish species in the lake (Keleher 1972) of which only five are of commercial importance. The major commercial species in decreasing order of importance are: lake whitefish, *Coregonus clupeaformis* (Mitchill); lake trout, *Salvelinus namaycush* (Walbaum); inconnu, *Stenodus leucichthys nelma* (Pallas); northern pike, *Esox lucius* (Linnaeus); and walleye (pickerel), *Stizostedion vitreum vitreum* (Mitchill). Cisco, *Coregonus spp.*, burbot, *Lota lota* (Linnaeus) and longnose sucker, *Catostomus catostomus* (Forster) may constitute up to 40% or more of the total catch; however, they are culled on the lake due to lack of market demand.

The lake is divided into six administrative areas for management purposes and a portion of the total annual quota of whitefish and trout is allotted to each area (Table 1). The annual quota is based on the period commencing 1 November and terminating on the following 31 October and applies to the combined catch for both the winter and summer fisheries. More detailed histories of the commercial fishery on Great Slave Lake are given by Kennedy (1956), Keleher (1972) and Bond and Turnbull (1973). The description of the winter and summer fisheries is summarized by Moshenko et al. (1978).

MATERIALS AND METHODS

FISH PLANT SAMPLING

Monthly summaries of the landings by species by administrative area were compiled from the Freshwater Fish Marketing Corporation (FFMC) sales slips by Department of Fisheries and Oceans (DFO) staff in Hay River.

The following table lists the factors used to convert various species and forms to round weight:

Species	Form	Conversion Factor
Whitefish	dressed	x 1.17
Pickerel	dressed	x 1.22
	headless dressed	x 1.39
Trout	dressed	x 1.21
	headless dressed	x 1.53
Pike	dressed	x 1.22
	headless dressed	x 1.53
Inconnu	dressed	x 1.16
	headless dressed	x 1.35

Production values presented in this report (Tables 2-8) include whitefish culls at the plant but do not include an estimate of deteriorated whitefish discarded on the lake. Fishermen cull these fish as the nets are lifted but no record is made of the numbers or estimated weight. Fish which do not meet the market size and quality requirements are further culled by graders at the fish plant and the weight is recorded on the sales slip. Cullage on the lake was not subtracted from the quota during the 1988, 1989 and 1990 seasons.

Commercial landings of whitefish were sampled from each of the six administrative areas fished during the sample periods. Sampling frequency was based on a schedule as follows:

Winter - December 1 to March 30
Summer - June 10 to July 15
Fall - September 1 to October 15

Boxes of fish were selected at random from the catches of various fishermen as they arrived at the plant. All whitefish in the box, up to a maximum of 70 fish per individual fisherman were sampled. Thus, the sample of 200 whitefish should have been taken from at least three different fishermen. An additional 10 fish were sampled to compensate for scale samples which were unsuitable for aging. The fish were measured for fork length (± 1 mm) and dressed weight (± 50 g). Scales were taken from the left side of the fish from the area just above the lateral line and below the dorsal fin.

FISHERY OBSERVATIONS

Fishery observations were conducted in 1988 and 1989 by placing Department of Fisheries and Oceans (DFO) technicians on board the various types of commercial fishing vessels. These DFO observers accompanied the fish harvesters when they left port in the morning and returned with them at the end of the fishing day. The operators were interviewed for information pertaining to the number of nets set, location and duration of the net-gang sets, mesh size, mesh depth, twine size, depth fished, descriptive features of the fishing vessels and the size of crews. As the nets were lifted, observers kept a record of the number of fish of each species caught and culled per net-gang (usually 5-8 nets). Observations were conducted in 1988 and 1989 during the months of June, July, August and September in four administrative areas of the lake to obtain information during the open-water fishing season.

BIOLOGICAL DATA

The scale age of whitefish was determined by counting the number of completed annuli. That is, an age 10 fish was in its eleventh year.

Data were analyzed using computer facilities (Micro Vax II) based at the Freshwater Institute Science Laboratory, Winnipeg, Manitoba. The Statistical Analysis System (version 6) was used to generate length, weight and age.

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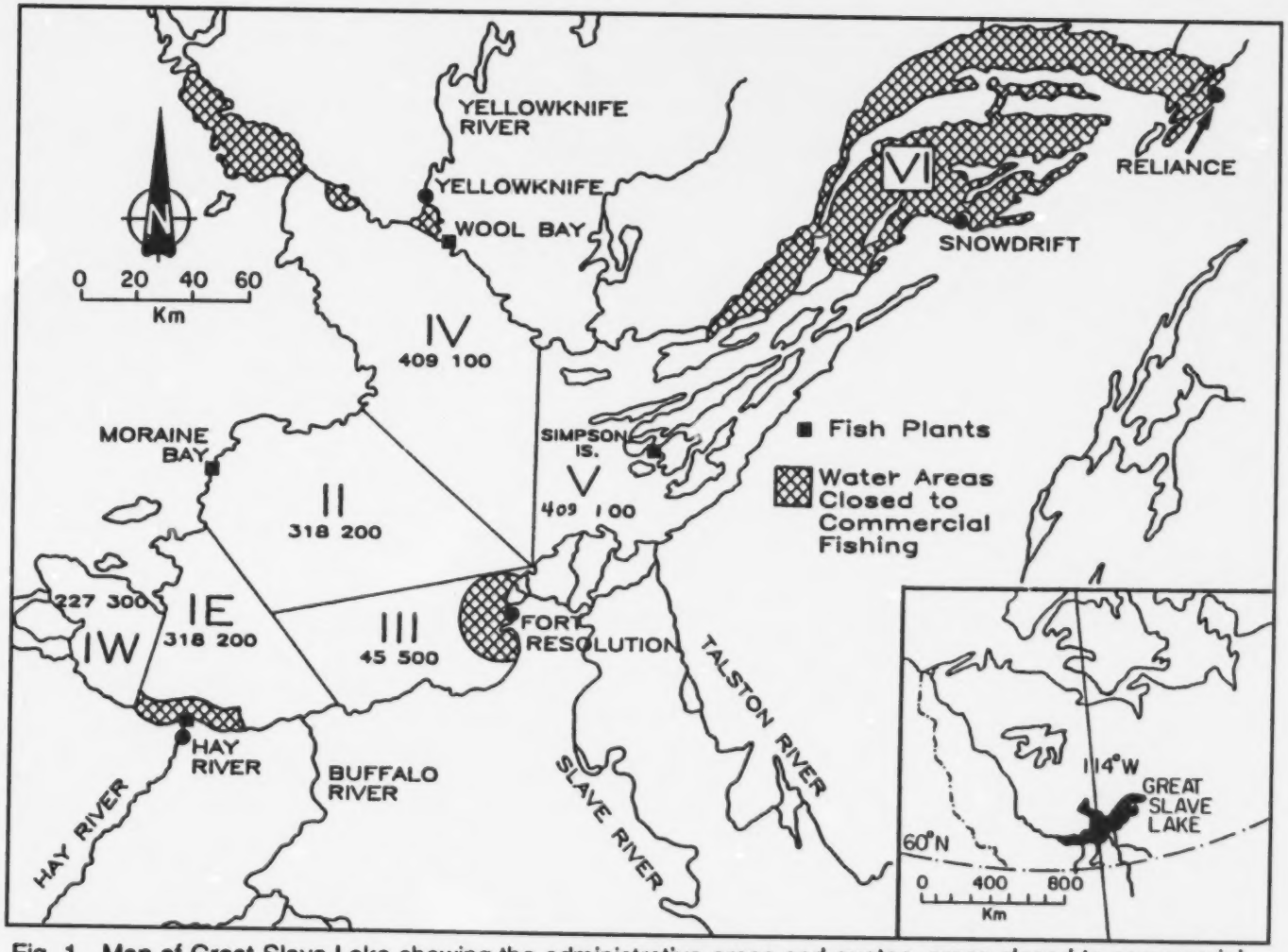

Fig. 1. Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of the fish plants.

Table 1. Commercial quotas in effect on Great Slave Lake during the 1976 to 1990 seasons.

Year[1]	Commercial Quota of Whitefish and Trout[1] (kg round weight)						
	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
1975-76	227 273	318 181	681 819	Nil	622 727	325 000	2 175 000
1976-77	227 273	318 181	318 181	Nil	409 091	272 729	1 545 455
1977-78	227 273	318 181	318 181	Nil	409 091	272 729	1 545 455
1978-79	227 273	318 181	318 181	45 455	409 091	295 455	1 613 636
1979-80	227 273	318 181	318 181	45 455	409 091	363 637	1 681 818
1980-81	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1981-82	227 300	318 200	318 200	79 500	409 100	363 600	1 715 900
1982-83	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1983-84	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1984-85	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1985-86	227 300	318 200	318 200	70 000	409 100	363 600	1 706 400
1986-87	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1987-88	227 300	318 200	318 200	45 500	409 100	409 100	1 681 900
1988-89	227 300	318 200	318 200	45 500	409 100	409 100	1 681 900
1989-90	227 300	318 200	318 200	45 500	409 100	409 100	1 681 900

[1] Season runs from November 1 of one year to October 31 of the next year.

Table 2. Total production of commercial species (kg round weight) by administrative area, November 1, 1987 to October 31, 1988.

	Production From Each Administration Area						
Species1	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	232 645	308 805	318 392	30 339	412 857	135 978	1 439 016
Trout	3 297	7 151	6 845	1 567	5 301	41 094	65 255
Pike	35 487	8 205	10 702	1 047	25 558	31 865	112 864
Inconnu	2 463	23 796	2 333	6 281	12 255	8 234	55 362
Walleye	282	814	8	226	13 023	5 919	20 272
Burbot	0	113	0	0	63	0	176
Total	274 174	348 884	338 280	39 460	469 057	223 090	1 692 945

Table 3. Total production of commercial species (kg round weight) by administrative area, November 1, 1988 to October 31, 1989.

	Production From Each Administration Area						
Species1	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	234 075	312 330	301 175	41 950	395 161	166 643	1 451 334
Trout	8 710	23 790	14 317	3 207	8 476	78 724	137 224
Pike	47 197	9 006	17 040	4 739	28 083	64 425	170 490
Inconnu	2 760	29 540	712	8 644	3 829	38 247	83 732
Walleye	1 041	746	71	216	12 812	5 424	20 310
Sucker	0	2	0	139	0	0	141
Total	293 783	375 414	333 315	58 895	448 361	353 463	1 863 231

Table 4. Total production of commercial species (kg round weight) by administrative area, November 1, 1989 to October 31, 1990.

	Production From Each Administration Area						
Species1	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	225 839	199 491	308 196	40 715	337 263	205 904	1 317 408
Trout	9 778	24 704	9 501	176	3 419	39 638	87 216
Pike	67 110	15 518	23 268	2 533	32 602	62 470	203 501
Inconnu	1 230	18 507	514	4 324	2 466	42 433	69 474
Walleye	568	4 009	205	1 036	21 166	7 479	34 463
Total	304 525	262 229	341 684	48 784	396 916	357 924	1 712 062

Table 5. Production of whitefish and trout (kg round weight) from each administrative area for winter 1987/88 and summer, 1988.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	232 645	3 297	0	0	232 645	3 297	235 942
IE	157 119	3 432	150 686	3 719	307 805	7 151	314 956
II	160 119	2 014	158 273	4 831	318 392	6 845	325 237
III	14 569	645	15 770	922	30 339	1 567	31 906
IV	150 014	166	262 843	5 135	412 857	5 301	418 158
V	29 229	13 012	106 749	28 082	135 978	41 094	177 072
Total	743 695	22 566	694 321	42 689	1 438 016	65 255	1 503 271

Table 6. Production of whitefish and trout (kg round weight) from each administrative area for winter 1988/89 and summer, 1989.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	192 182	6 433	41 893	2 277	234 075	8 710	242 785
IE	103 745	7 045	208 585	16 745	312 330	23 790	336 120
II	140 501	5 636	160 674	8 681	301 175	14 317	315 492
III	29 260	3 140	12 690	67	41 950	3 207	45 157
IV	115 961	847	279 200	7 629	395 161	8 476	403 637
V	11 963	394	154 680	78 330	166 643	78 724	245 367
Total	593 612	23 495	857 722	113 729	1 451 334	137 224	1 588 558

Table 7. Production of whitefish and trout (kg round weight) from each administrative area for winter 1989/90 and summer, 1990.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	190 730	8 395	35 109	1 383	225 839	9 778	235 617
IE	45 947	4 918	153 544	19 786	199 491	24 704	224 195
II	114 334	2 946	193 862	6 555	308 196	9 501	317 697
III	0	0	40 715	176	40 715	176	40 891
IV	85 691	1 010	251 572	2 409	337 263	3 419	340 682
V	101 077	11 668	104 827	27 970	205 904	39 638	245 542
Total	537 779	28 937	779 629	58 279	1 317 408	87 216	1 404 624

Table 8. Annual production (x 1000 kg, round weight) of commercial species, Great Slave Lake, 1973-1990.

Year[1]	Whitefish	Trout	Pike	Inconnu	Walleye	Total Whitefish & Trout	Total All Species
1972-73	1 004	92	155	103	17	1 096	1 371
1973-74	973	111	-	-	-	1 084	1 084
1974-75	921	99	96	95	10	1 020	1 221
1975-76	975	83	103	77	9	1 058	1 247
1976-77	1 172	108	118	86	11	1 280	1 495
1977-78	1 107	105	157	153	13	1 212	1 535
1978-79	1 065	121	129	153	6	1 186	1 474
1979-80	1 178	122	199	65	19	1 300	1 583
1980-81	1 097	85	151	43	4	1 182	1 380
1981-82	1 139	75	166	23	8	1 214	1 411
1982-83	899	61	115	16	5	960	1 096
1983-84	863	50	108	47	15	913	1 083
1984-85	876	110	155	72	13	986	1 226
1985-86	1 219	107	130	62	12	1 326	1 530
1986-87	1 310	127	140	74	14	1 437	1 665
1987-88	1 438	65	113	74	20	1 503	1 710
1988-89	1 451	137	170	84	20	1 588	1 863
1989-90	1 317	87	204	69	34	1 404	1 711

[1] Season runs from November 1 of one year to October 31 of the next year.

Table 9. Prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Freshwater Fish Marketing Corporation, Hay River plant, Great Slave Lake, winter 1987/88 and summer 1988.

Species and Form	Winter 1987-88[3]				Summer 1988[4]		
	FFMC[1]						
	Nov. 1/87	Jan. 3/88	Apr. 3/88	GNWT[2]	FFMC[1]	GNWT[2]	Final Payment[5]
Whitefish (dressed)							
smokers - large	-	-	-	-	93.5	33	44.3
smokers - medium	-	-	-	-	84.7	33	44.3
jumbo (over 1.8 kg)	102.5	190.5	102.5	18.5	78.1	33	44.3
large (1.4-1.8 kg)	91.5	179.5	91.5	18.5	75.9	33	44.3
medium (0.7-1.4 kg)	80.5	168.5	80.5	18.5	73.7	33	44.3
small (0.45-0.7 kg)	47.5	113.5	47.5	18.5	36.3	33	44.3
Lake Trout							
dressed - medium (1.8-3.6 kg)	223.5	223.5	223.5	0	113.3	0	27.3
dressed - small (0.9-1.8 kg)	201.5	201.5	201.5	0	91.3	0	27.3
headless dressed (over 3.6 kg)	201.5	201.5	201.5	0	102.3	0	27.3
Walleye							
round - large (over 1.6 kg)	179.5	378.5	179.5	0	-	-	222.2
round - medium (0.6-1.6 kg)	257.5	378.5	257.5	0	-	-	222.2
round - small (0.35-0.6 kg)	179.5	224.5	179.5	0	-	-	222.2
dressed - large (over 1.4 kg)	223.5	223.5	223.5	0	207.9	0	266.8
dressed - medium (0.55-1.4 kg)	323.5	323.5	323.5	0	253.0	0	266.8
dressed - small (0.3-0.55 kg)	179.5	179.5	179.5	0	185.9	0	266.8
Northern Pike							
dressed (1.8-4.1 kg)	124.5	124.5	124.5	0	91.3	0	55.2
headless dressed	91.5	91.5	91.5	0	58.3	0	55.2
Inconnu							
headless dressed	224.5	224.5	224.5	0	168.3	0	96.9

[1] Freshwater Fish Marketing Corporation prices.
[2] Government of Northwest Territories subsidy (whitefish only).
[3] 30% of above listed price was deducted for fish delivered frozen.
[4] A freight charge of 3.3 ¢/kg was deducted for fish delivered to the FFMC lake stations.
[5] Final payments on fish produced during the 1987-88 fiscal year.

Table 10. Prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Freshwater Fish Marketing Corporation, Hay River plant, Great Slave Lake, winter 1988/89 and summer 1989.

Species and Form		Winter 1988-89[3]				Summer 1989[4]		
		FFMC[1]						
		Nov. 6/88	Jan. 1/89	Apr. 2/89	GNWT[2]	FFMC[1]	GNWT[2]	Final Payment[5]
Whitefish (dressed)								
jumbo (over 1.8 kg)		102.5	190.5	102.5	18.5	97.3	33	48.1
large (1.4-1.8 kg)		91.5	179.5	91.5	18.5	95.0	33	48.1
medium (0.7-1.4 kg)		80.5	168.5	80.5	18.5	86.0	33	48.1
small (0.45-0.7 kg)		47.5	113.5	47.5	18.5	44.0	33	48.1
Lake Trout								
dressed	- medium (1.8-3.6 kg)	224.5	224.5	224.5	0	110.0	0	0
	- small (0.9-1.8 kg)	201.5	201.5	201.5	0	88.0	0	0
headless dressed (over 3.6 kg)		201.5	201.5	201.5	0	99.0	0	0
Walleye								
round	- large (over 1.6 kg)	179.5	378.5	179.5	0	-	-	-
	- medium (0.6-1.6 kg)	257.5	378.5	257.5	0	-	-	-
	- small (0.35-0.6 kg)	179.5	224.5	179.5	0	-	-	-
dressed	- large (over 1.4 kg)	235.4	235.5	235.5	0	183.0	0	52.9
	- medium (0.55-1.4 kg)	323.5	323.5	323.5	0	214.0	0	52.9
	- small (0.3-0.55 kg)	179.5	179.5	179.5	0	161.0	0	52.9
Northern Pike								
dressed	- large (1.8-4.1 kg)	102.5	102.5	102.5	0	88.0	0	40.1
	- medium (0.9-1.8 kg)	-	-	-	-	55.0	0	40.1
headless	- other (over 0.9 kg)	69.5	69.5	69.5	0	55.0	0	40.1
	- small (0.35-0.9 kg)	69.5	69.5	69.5	0	55.0	0	40.1
Inconnu								
headless dressed		224.5	224.5	224.5	0	187.0	0	65.5

[1] Freshwater Fish Marketing Corporation prices.
[2] Government of Northwest Territories subsidy (whitefish only).
[3] 30% of above listed price was deducted for fish delivered frozen.
[4] A freight charge of 3.3 ¢/kg was deducted for fish delivered to the FFMC lake stations.
[5] Final payments on fish produced during the 1988-89 fiscal year.

Table 11. Prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Freshwater Fish Marketing Corporation, Hay River plant, Great Slave Lake, winter 1989/90 and summer 1990.

Species and Form		Winter 1989-90[3]				Summer 1990[4]		
		FFMC[1]						
		Nov. 5/89	Dec. 31/89	Apr. 1/90	GNWT[2]	FFMC[1]	GNWT[2]	Final Payment[5]
Whitefish (dressed)								
jumbo (over 1.8 kg)		115.0	187.0	115.0	22.0	97.3	33	3.1
large (1.4-1.8 kg)		104.0	176.0	104.0	22.0	95.0	33	3.1
medium (0.7-1.4 kg)		93.0	165.0	93.0	22.0	86.0	33	3.1
small (0.45-0.7 kg)		55.0	110.0	55.0	22.0	44.0	33	3.1
Lake Trout[6]								
dressed	- medium (1.8-3.6 kg)	176.0	176.0	176.0	0	99.0	0	0
	- small (0.9-1.8 kg)	154.0	154.0	154.0	0	121.0	0	0
headless dressed (over 3.6 kg)		154.0	154.0	154.0	0	110.0	0	0
Walleye								
round	- large (over 1.6 kg)	165.0	209.0	165.0	0	132.0	0	21.2
	- medium (0.6-1.6 kg)	187.0	297.0	187.0	0	143.0	0	21.2
	- small (0.35-0.6 kg)	165.0	209.0	165.0	0	132.0	0	21.2
dressed	- large (over 1.4 kg)	165.0	253.0	165.0	0	162.0	0	25.4
	- medium (0.55-1.4 kg)	187.0	253.0	187.0	0	176.0	0	25.4
	- small (0.3-0.55 kg)	165.0	176.0	165.0	0	147.4	0	25.4
Northern Pike								
dressed	- large (1.8-4.1 kg)	99.0	99.0	99.0	0	88.0	0	33.4
headless	- other (over 0.9 kg)	66.0	66.0	66.0	0	55.0	0	33.4
	- small (0.35-0.9 kg)	66.0	66.0	66.0	0	55.0	0	33.4
Inconnu								
headless dressed		221.0	221.0	221.0	0	220.0	0	34.0

[1] Freshwater Fish Marketing Corporation prices.
[2] Government of Northwest Territories subsidy (whitefish only).
[3] 30% of above listed price was deducted for fish delivered frozen.
[4] A freight charge of 3.3 ¢/kg was deducted for fish delivered to the FFMC lake stations.
[5] Final payments on fish produced during the 1989-90 fiscal year.
[6] Trout reduction program in effect.

Table 12. Summary of fishery observation information on vessels and gillnets used during the summer commercial fishery, Great Slave Lake, 1988.

Area	Class A		Class B		Total	
	No. of Observations	No. of Nets	No. of Observations	No. of Nets	No. of Observations	No. of Nets
IE	6	412	5	50	11	462
II	17	1070	8	165	25	1235
IV	16	1132	2	34	18	1166
V	4	181	6	52	10	233
Total	43	2795	21	301	64	3096
Mean No. Nets/Boat		68.3		14.3		
Mean No. Nets Lifted/Day		35.0		9.8		
Mean No. Net-Gangs Lifted/Day		5.1		2.3		
Depth of Nets (Meshs)		24-100		30-80		
Mean No. of Crew Members/Boat[1]		4.2		1.3		
133 mm Nets Used (%)		99.7		99.7		

[1] Operator included as crew member.

Table 13. Summary of fishery observation information on vessels and gillnets used during the summer commercial fishery, Great Slave Lake, 1989.

Area	Class A		Class B		Total	
	No. of Observations	No. of Nets	No. of Observations	No. of Nets	No. of Observations	No. of Nets
IE	19	482	6	76	25	558
II	25	1019	1	11	26	1030
IV	16	608	4	63	20	671
V	11	247	11	160	22	407
Total	71	2356	22	310	93	2730
Mean No. Nets/Boat		64.8		17.6		
Mean No. Nets Lifted/Day		33.2		14.1		
Mean No. Net-Gangs Lifted/Day		4.8		6.8		
Depth of Nets (Meshs)		40-120		30-80		
Mean No. of Crew Members/Boat[1]		4.3		1.7		
133 mm Nets Used (%)		97.9		81.6		

[1] Operator included as crew member.

Table 14. Species composition and catch per unit effort (CPUE) for each administrative area from fishery observations on Great Slave Lake, summer 1988.

Area	IE				II				IV				V				Total			
Metres of net	42,775				168,907				122,110				26,680				368,482			
	Fish Caught		CPUE		Fish Caught		CPUE		Fish Caught		CPUE		Fish Caught		CPUE		Fish Caught		CPUE	
Species	No.	% of Total	No.[1]	Wt.[2]	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.
L. whitefish[3]	5221	46.2	11.2	11.5	19899	66.8	10.8	13.0	16158	44.6	12.1	12.9	4348	69.5	14.9	16.8	45626	54.6	11.6	13.2
L. trout	36	0.3	0.1	-	159	0.5	0.1	-	142	-	0.1	-	826	13.2	2.8	8.0	1163	1.4	0.3	-
Walleye	22	0.2	-	-	1	-	-	-	792	2.2	0.6	-	162	2.6	0.6	-	977	1.2	0.3	-
N. pike	42	0.4	0.1	-	90	0.3	-	-	877	2.4	0.7	-	167	2.7	0.6	-	1176	1.4	0.3	-
Inconnu	238	2.1	0.5	-	9	-	-	-	8	-	-	-	12	.2	-	-	267	0.3	0.1	-
Cisco	4367	38.7	9.3	45.2	7152	24.0	3.8	1.7	16271	44.9	12.2	5.5	409	6.5	1.4	0.6	28199	33.7	7.1	3.2
L.n. sucker	595	5.3	1.3	2.1	28	0.1	-	-	479	1.3	0.4	0.5	94	1.5	0.3	0.5	1196	1.4	0.3	0.4
Burbot	771	6.8	1.6	2.2	2461	3.5	1.3	2.1	1513	4.2	1.1	1.7	234	5.6	0.8	1.3	4979	6.0	1.3	2.1
Goldeye	5	-	-	-	-	-	-	-	-	-	-	-	5	0.1	-	-	10	-	-	-
W. sucker	-	-	-	-	-	-	-	-	4	-	-	-	3	0.1	-	-	7	-	-	-
Total	11297	-	24.1	-	29799	-	16.0	-	36244	-	27.2	-	6260	-	21.4	-	83600	-	21.3	-

[1] Number of fish/91 m of net/24 hour period.
[2] Round weight of fish (kg)/91 metres of net/24 hour period.
[3] Mean round weight converted from dressed weight of 1987 plant samples.

Table 15. Species composition and catch per unit effort (CPUE) for each administrative area from fishery observations on Great Slave Lake, summer 1989.

Area	IE				II				IV				V				Total			
Metres of net	124,215				184,002				174,811				65,611				548,639			
	Fish Caught		CPUE		Fish Caught		CPUE		Fish Caught		CPUE		Fish Caught		CPUE		Fish Caught		CPUE	
Species	No.	% of Total	No.[1]	Wt.[2]	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.
L. whitefish[3]	12437	59.4	10.0	10.2	12902	83.1	7.0	8.4	26940	62.4	15.4	16.5	8859	70.4	13.5	15.3	61138	66.3	11.4	13.0
L. trout	727	3.5	0.6	-	209	1.3	0.1	-	32	-	-	-	902	7.2	1.4	4.0	1870	2.0	0.3	-
Walleye	7	-	-	-	-	-	-	-	445	1.0	0.3	-	99	0.8	0.2	-	551	0.6	0.1	-
N. pike	34	0.1	-	-	30	0.2	-	-	440	1.0	0.3	-	416	3.3	0.6	-	920	1.0	0.2	-
Inconnu	205	1.0	0.2	-	9	-	-	-	19	-	-	-	223	1.8	0.3	-	456	0.5	0.1	-
Cisco	3528	16.9	2.8	1.2	1161	7.5	0.6	0.3	13035	30.2	7.5	3.4	517	4.1	0.8	0.4	18241	19.8	3.3	1.5
L.n. sucker	1295	6.2	1.0	1.7	106	0.7	0.1	0.2	999	2.3	0.6	1.0	592	4.7	0.9	1.5	2992	3.2	0.5	0.8
Burbot	2700	12.9	2.2	3.0	1103	7.1	0.6	0.8	1255	2.9	0.7	1.0	912	7.2	1.4	1.9	5970	6.5	1.1	1.5
Goldeye	1	-	-	-	-	-	-	-	-	-	-	-	49	0.4	0.1	-	50	-	-	-
W. sucker	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
A. Grayling	2	-	-	-	1	-	-	-	-	-	-	-	11	-	-	-	14	-	-	-
Total	20936	-	16.8	-	15521	-	8.4	-	43166	-	24.8	-	12580	-	19.2	-	92203	-	17.0	-

[1] Number of fish/91 m of net/24 hour period.
[2] Round weight of fish (kg)/91 metres of net/24 hour period.
[3] Mean round weight converted from dressed weight of 1987 plant samples.

Table 16. Weight composition by market weight intervals for lake whitefish from commercial plant samples, Great Slave Lake, 1987/88.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	-	-	-	-	6	-	1	-	7	-
SMALL (0.45-0.69 kg)	16	4	17	8	21	5	3	1	52	8	3	1	112	5
MEDIUM (0.70-1.39 kg)	396	95	190	90	395	94	185	89	560	89	192	91	1918	91
LARGE (1.40-1.80 kg)	7	2	3	1	3	-	17	8	10	2	13	6	53	3
JUMBO (> 1.80 kg)	-	-	-	-	-	-	4	2	2	-	1	-	7	-
TOTAL	419		210		419		209		630		210		2097	

Table 17. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1987/88.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
6	2	0.2	375	17.0	675	106.1
7	10	0.9	388	32.9	775	211.1
8	203	17.4	396	20.9	885	178.5
9	233	20.0	400	21.7	884	169.2
10	252	21.6	405	19.9	903	150.5
11	249	21.4	414	21.3	945	155.2
12	106	9.1	418	22.3	997	193.4
13	54	4.6	428	20.9	1047	147.8
14	29	2.5	439	23.2	1109	172.7
15	14	1.2	452	28.3	1225	291.4
16	9	0.8	448	38.2	1244	366.1
17	3	0.3	508	66.0	1867	604.8
TOTAL	1164					
MEAN			408	25.1	933	190.8
MEAN AGE 10.2						

Table 18. Age composition of commercial whitefish for each seasonal period from area IW, 1987/88.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	3	396	783	-	-	-	-	-	-	3	396	22.1	783	125.8
8	14	379	682	-	-	-	-	-	-	14	379	18.0	682	121.9
9	34	400	851	-	-	-	-	-	-	34	400	24.9	851	156.9
10	39	409	886	-	-	-	-	-	-	39	409	14.5	886	109.4
11	18	423	947	-	-	-	-	-	-	18	423	20.3	947	123.0
12	5	445	1130	-	-	-	-	-	-	5	445	23.0	1130	213.9
13	2	456	1175	-	-	-	-	-	-	2	456	1.4	1175	35.4
14	1	420	950	-	-	-	-	-	-	1	420	-	950	-
TOTAL	116			-			-			116				
MEAN		407	874		-	-		-	-		407	25.2	874	164.4
MEAN AGE	9.7			-			-			9.7				

Table 19. Age composition of commercial whitefish for each seasonal period from area IE, 1987/88.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	2	373	650	-	-	-	2	373	6.4	650	70.7
8	18	390	817	100	399	906	-	-	-	118	398	18.3	892	145.6
9	33	404	891	48	403	918	-	-	-	81	403	16.7	907	132.9
10	30	408	888	25	413	960	-	-	-	55	410	18.7	921	146.8
11	29	426	1009	18	428	1042	-	-	-	47	426	18.2	1021	165.7
12	2	444	1175	3	423	1000	-	-	-	5	431	15.7	1070	164.3
13	2	440	1075	2	446	1300	-	-	-	4	443	19.4	1188	242.8
14	3	467	1300	1	407	950	-	-	-	4	452	40.8	1213	301.0
15	-	-	-	1	475	1350	-	-	-	1	475	-	1350	-
TOTAL	117			200			-			317				
MEAN		411	926		405	933		-	-		407	22.2	930	164.1
MEAN AGE	9.8			8.9			-			9.3				

Table 20. Age composition of commercial whitefish for each seasonal period from area II, 1987/88.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	364	650	1	418	1000	-	-	-	2	391	38.2	825	247.5
8	10	412	940	3	372	750	-	-	-	13	402	22.1	896	136.1
9	25	405	904	18	394	814	-	-	-	43	401	18.5	866	124.3
10	31	412	924	33	406	886	-	-	-	64	409	18.1	905	116.7
11	38	421	962	32	417	973	-	-	-	70	419	15.8	967	115.1
12	9	439	1117	11	425	1045	-	-	-	20	431	16.7	1078	174.3
13	4	432	1088	1	447	1150	-	-	-	5	435	23.0	1100	136.9
14	1	463	1300	-	-	-	-	-	-	1	463	-	1300	-
15	-	-	-	1	472	1300	-	-	-	1	472	-	1300	-
TOTAL	119			100			-			219				
MEAN		416	954		410	923		-	-		413	20.9	940	144.3
MEAN AGE	10.2			10.4			-			10.3				

Table 21. Age composition of commercial whitefish for each seasonal period from area III, 1987/88.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	1	425	1050	-	-	-	1	425	-	1050	-
8	-	-	-	40	406	1023	-	-	-	40	406	17.7	1023	158.1
9	-	-	-	26	412	1094	-	-	-	26	412	16.1	1094	143.8
10	-	-	-	22	416	1109	-	-	-	22	416	20.9	1109	195.6
11	-	-	-	4	418	1288	-	-	-	4	418	42.4	1288	370.5
12	-	-	-	3	417	1150	-	-	-	3	417	18.9	1150	100.0
13	-	-	-	4	433	1200	-	-	-	4	433	8.7	1200	40.8
15	-	-	-	1	490	2050	-	-	-	1	490	-	2050	-
16	-	-	-	1	510	2000	-	-	-	1	510	-	2000	-
17	-	-	-	1	450	1650	-	-	-	1	450	-	1650	-
TOTAL	-			103			-			103				
MEAN		-	-		414	1106		-	-		414	23.2	1106	225.3
MEAN AGE	-			9.3			-			9.3				

Table 22. Age composition of commercial whitefish for each seasonal period from area IV, 1987/88.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	-	-	-	2	375	675	2	375	17.0	675	106.1
7	-	-	-	1	323	400	1	419	1000	2	371	67.9	700	424.3
8	2	357	575	5	352	520	11	392	786	18	377	26.5	689	177.9
9	4	365	613	19	373	687	22	400	843	45	385	26.1	757	164.3
10	20	387	800	25	390	820	22	396	875	67	391	18.3	832	125.7
11	42	395	865	30	402	883	25	410	922	97	401	19.6	886	133.3
12	27	404	919	15	407	920	13	425	1085	55	410	22.6	958	208.1
13	16	414	988	1	399	950	3	425	917	20	415	13.0	975	99.3
14	3	426	1100	1	408	950	-	-	-	4	421	20.5	1063	160.1
15	1	453	1300	-	-	-	-	-	-	1	453	-	1300	-
TOTAL	115			97			99			311				
MEAN		398	880		391	812		405	896		398	23.9	864	176.5
MEAN AGE	11.3			10.4			10.1			10.6				

Table 23. Age composition of commercial whitefish for each seasonal period from area V, 1987/88.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
9	-	-	-	-	-	-	4	413	938	4	413	15.5	938	160.1
10	-	-	-	-	-	-	5	409	880	5	409	24.7	880	120.4
11	-	-	-	-	-	-	13	415	885	13	415	17.3	885	144.9
12	-	-	-	-	-	-	18	418	944	18	418	15.5	944	122.3
13	-	-	-	-	-	-	19	433	1034	19	433	23.3	1034	146.3
14	-	-	-	-	-	-	19	440	1095	19	440	18.1	1095	143.3
15	-	-	-	-	-	-	10	444	1115	10	444	28.7	1115	174.9
16	-	-	-	-	-	-	8	441	1150	8	441	32.6	1150	247.8
17	-	-	-	-	-	-	2	538	1975	2	538	60.1	1975	813.2
TOTAL	-			-			98			98				
MEAN		-	-		-	-		431	1035		431	29.1	1035	235.2
MEAN AGE	-			-			13.0			13.0				

Table 24. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1987/88.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
310-319	1	-	318	-	400	-
320-329	4	0.2	324	3.0	400	0.0
330-339	5	0.2	335	2.2	470	67.1
340-349	17	0.8	345	2.9	553	67.2
350-359	26	1.2	354	2.8	592	65.9
360-369	44	2.1	365	2.9	650	80.0
370-379	93	4.4	374	2.6	711	79.8
380-389	195	9.3	384	2.9	785	78.2
390-399	246	11.7	394	2.7	835	90.7
400-409	374	17.8	404	3.1	896	91.5
410-419	351	16.7	414	3.1	956	89.7
420-429	305	14.5	424	2.9	1017	107.2
430-439	186	8.9	433	3.0	1065	97.7
440-449	102	4.9	443	3.1	1119	123.7
450-459	65	3.1	454	3.3	1210	135.8
460-469	38	1.8	464	3.1	1288	139.2
470-479	20	1.0	474	3.4	1403	142.8
480-489	10	0.5	483	2.6	1565	264.6
490-499	8	0.4	493	3.1	1650	205.3
500-509	3	0.1	504	3.5	1783	275.4
510-519	3	0.1	513	4.6	1890	208.1
580-589	1	-	580	-	2550	-
TOTAL	2097					
MEAN			411	26.2	941	198.3

Table 25. Length composition of commercial whitefish for each seasonal period from area IW, 1987/88.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	2	347	575	-	-	-	-	-	-	2	347	2.1	575	106.1
350-359	2	358	550	-	-	-	-	-	-	2	358	0.7	550	0.0
360-369	5	366	690	-	-	-	-	-	-	5	366	2.3	690	89.4
370-379	13	373	673	-	-	-	-	-	-	13	373	2.4	673	72.5
380-389	21	385	748	-	-	-	-	-	-	21	385	3.0	748	53.6
390-399	25	395	756	-	-	-	-	-	-	25	395	3.0	756	80.8
400-409	32	404	838	-	-	-	-	-	-	32	404	2.8	838	64.8
410-419	39	413	905	-	-	-	-	-	-	39	413	2.8	905	64.7
420-429	26	423	929	-	-	-	-	-	-	26	423	2.6	929	55.1
430-439	18	433	1017	-	-	-	-	-	-	18	433	2.8	1017	80.4
440-449	13	443	1027	-	-	-	-	-	-	13	443	2.7	1027	90.4
450-459	8	455	1163	-	-	-	-	-	-	8	455	3.2	1163	180.8
460-469	4	464	1150	-	-	-	-	-	-	4	464	3.9	1150	70.7
480-489	2	484	1525	-	-	-	-	-	-	2	484	4.9	1525	106.1
TOTAL	210			-			-			210				
MEAN		410	876		-	-		-	-		410	24.8	876	163.1

Table 26. Length composition of commercial whitefish for each seasonal period from area IE, 1987/88.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	345	500	-	-	-	-	-	-	1	345	-	500	-
350-359	1	357	600	2	354	650	-	-	-	3	355	2.5	633	28.9
360-369	2	363	575	4	366	625	-	-	-	6	365	3.2	608	86.1
370-379	12	374	696	11	375	741	-	-	-	23	374	2.7	717	61.4
380-389	20	384	760	28	384	802	-	-	-	48	384	2.7	784	72.3
390-399	29	394	836	32	394	850	-	-	-	61	394	2.6	843	62.2
400-409	36	403	890	45	404	941	-	-	-	81	403	2.9	919	76.8
410-419	32	414	938	38	414	996	-	-	-	70	414	3.0	969	74.4
420-429	37	424	1012	20	424	1015	-	-	-	57	424	2.5	1013	94.3
430-439	21	433	1081	18	434	1097	-	-	-	39	433	2.8	1088	93.5
440-449	8	442	1119	8	443	1163	-	-	-	16	443	2.9	1141	124.1
450-459	6	454	1200	-	-	-	-	-	-	6	454	2.3	1200	114.0
460-469	-	-	-	2	463	1500	-	-	-	2	463	3.5	1500	70.7
470-479	1	470	1300	1	475	1350	-	-	-	2	473	3.5	1325	35.4
480-489	2	482	1500	-	-	-	-	-	-	2	482	2.1	1500	282.8
490-499	2	494	1650	-	-	-	-	-	-	2	494	5.7	1650	70.7
TOTAL	210			209			-			419				
MEAN		411	933		406	935		-	-		408	22.3	934	166.1

Table 27. Length composition of commercial whitefish for each seasonal period from area II, 1987/88.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	-	-	-	1	337	550	-	-	-	1	337	-	550	-
340-349	-	-	-	2	346	600	-	-	-	2	346	1.4	600	141.4
350-359	1	352	500	4	355	600	-	-	-	5	354	3.7	580	57.0
360-369	2	365	650	4	366	675	-	-	-	6	366	1.4	667	40.8
370-379	9	375	656	11	374	745	-	-	-	20	375	2.7	705	85.7
380-389	21	385	769	14	384	786	-	-	-	35	385	3.3	776	82.6
390-399	18	393	764	22	394	827	-	-	-	40	394	2.6	799	93.0
400-409	38	404	845	37	404	854	-	-	-	75	404	3.2	849	71.9
410-419	46	414	905	40	414	936	-	-	-	86	414	3.0	920	73.7
420-429	31	424	953	39	424	1005	-	-	-	70	424	2.8	982	98.6
430-439	21	434	1021	21	433	1069	-	-	-	42	433	2.9	1045	87.5
440-449	13	444	1123	5	443	1070	-	-	-	18	444	3.0	1108	104.7
450-459	6	454	1158	4	454	1163	-	-	-	10	454	3.7	1160	107.5
460-469	4	462	1238	3	466	1250	-	-	-	7	464	2.9	1243	117.0
470-479	-	-	-	2	474	1375	-	-	-	2	474	2.1	1375	106.1
TOTAL	210			209			-			419				
MEAN		412	899		410	916		-	-		411	22.4	908	155.5

Table 28. Length composition of commercial whitefish for each seasonal period from area III, 1987/88.

LENGTH INTERVAL (mm)	WINTER			SPRING			FALL			TOTAL				
	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
350-359	-	-	-	2	350	575	-	-	-	2	350	0.0	575	106.1
360-369	-	-	-	2	360	700	-	-	-	2	360	0.0	700	141.4
370-379	-	-	-	4	375	913	-	-	-	4	375	3.3	913	62.9
380-389	-	-	-	18	384	892	-	-	-	18	384	2.7	892	86.2
390-399	-	-	-	23	393	963	-	-	-	23	393	3.1	963	93.2
400-409	-	-	-	30	401	1022	-	-	-	30	401	2.4	1022	144.2
410-419	-	-	-	48	412	1063	-	-	-	48	412	2.6	1063	88.4
420-429	-	-	-	34	421	1163	-	-	-	34	421	2.3	1163	90.7
430-439	-	-	-	18	431	1183	-	-	-	18	431	1.6	1183	80.4
440-449	-	-	-	13	441	1296	-	-	-	13	441	2.2	1296	134.6
450-459	-	-	-	5	450	1440	-	-	-	5	450	0.0	1440	124.5
460-469	-	-	-	3	462	1500	-	-	-	3	462	2.9	1500	100.0
470-479	-	-	-	2	473	1600	-	-	-	2	473	3.5	1600	141.4
480-489	-	-	-	2	483	1850	-	-	-	2	483	4.2	1850	212.1
490-499	-	-	-	3	492	1817	-	-	-	3	492	2.9	1817	202.1
510-519	-	-	-	2	510	2010	-	-	-	2	510	0.0	2010	14.1
TOTAL	-			209			-			209				
MEAN		-	-		414	1109		-	-		414	25.5	1109	232.7

Table 29. Length composition of commercial whitefish for each seasonal period from area IV, 1987/88.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	1	325	400	3	323	400	-	-	-	4	324	3.0	400	0.0
330-339	-	-	-	2	333	450	2	337	450	4	335	2.3	450	57.7
340-349	7	344	557	2	345	500	3	347	550	12	345	3.3	546	54.2
350-359	5	353	600	4	354	588	4	355	613	13	354	2.3	600	76.4
360-369	7	363	629	8	365	625	9	366	678	24	365	3.2	646	80.6
370-379	15	372	707	7	374	721	9	375	683	31	374	2.5	703	57.6
380-389	22	384	777	27	384	765	21	385	781	70	384	2.8	774	63.0
390-399	39	394	858	23	394	828	24	394	821	86	394	2.5	840	69.1
400-409	47	404	914	28	405	905	56	403	888	131	404	3.3	901	68.2
410-419	23	413	980	27	414	946	30	417	953	80	415	3.3	959	76.6
420-429	29	423	1050	25	425	1028	23	426	993	77	424	2.6	1026	92.7
430-439	8	432	1063	10	434	1025	13	434	1042	31	434	3.1	1042	76.5
440-449	4	441	1188	15	443	1090	4	445	1050	23	443	2.9	1100	90.5
450-459	2	452	1300	13	454	1212	6	456	1142	21	454	3.5	1200	114.0
460-469	1	463	1350	8	463	1288	1	464	1200	10	463	2.7	1285	88.3
470-479	-	-	-	4	477	1488	2	470	1275	6	474	4.1	1417	199.2
480-489	-	-	-	2	485	1700	1	483	1300	3	484	1.2	1567	305.5
490-499	-	-	-	1	490	1650	-	-	-	1	490	-	1650	-
500-509	-	-	-	-	-	-	2	502	1850	2	502	0.0	1850	353.6
510-519	-	-	-	1	518	1650	-	-	-	1	518	-	1650	-
TOTAL	210			210			210			630				
MEAN		399	886		411	939		406	895		405	28.4	906	198.9

Table 30. Length composition of commercial whitefish for each seasonal period from area V, 1987/88.

LENGTH INTERVAL (mm)	WINTER			SPRING			FALL			TOTAL				
		MEAN FORK LEN.	MEAN DR. WT.		MEAN FORK LEN.	MEAN DR. WT.		MEAN FORK LEN.	MEAN DR. WT.		FORK LENGTH(mm)		DRESSED WEIGHT(g)	
	NO.	(mm)	(g)	NO.	(mm)	(g)	NO.	(mm)	(g)	NO.	MEAN	SD.	MEAN	SD.
310-319	-	-	-	-	-	-	1	318	400	1	318	-	400	-
350-359	-	-	-	-	-	-	1	357	550	1	357	-	550	-
360-369	-	-	-	-	-	-	1	363	600	1	363	-	600	-
370-379	-	-	-	-	-	-	2	374	675	2	374	2.1	675	35.4
380-389	-	-	-	-	-	-	3	388	817	3	388	0.6	817	28.9
390-399	-	-	-	-	-	-	11	395	795	11	395	3.1	795	90.7
400-409	-	-	-	-	-	-	25	404	866	25	404	3.0	866	70.3
410-419	-	-	-	-	-	-	28	415	920	28	415	3.1	920	79.7
420-429	-	-	-	-	-	-	41	425	1000	41	425	3.1	1000	85.9
430-439	-	-	-	-	-	-	38	435	1047	38	435	2.9	1047	99.3
440-449	-	-	-	-	-	-	19	445	1074	19	445	3.6	1074	56.2
450-459	-	-	-	-	-	-	15	453	1210	15	453	2.9	1210	103.9
460-469	-	-	-	-	-	-	12	464	1275	12	464	3.7	1275	137.3
470-479	-	-	-	-	-	-	8	475	1369	8	475	3.3	1369	88.4
480-489	-	-	-	-	-	-	1	485	1200	1	485	-	1200	-
490-499	-	-	-	-	-	-	2	494	1400	2	494	1.4	1400	0.0
500-509	-	-	-	-	-	-	1	508	1650	1	508	-	1650	-
580-589	-	-	-	-	-	-	1	580	2550	1	580	-	2550	-
TOTAL	-			-			210			210				
MEAN		-	-		-	-		429	1025		429	27.4	1025	213.5

Table 31. Weight composition by market weight intervals for lake whitefish from commercial plant samples, Great Slave Lake, 1988/89.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	-	-	2	1	2	-	2	-	6	-
SMALL (0.45-0.69 kg)	18	4	25	12	23	5	10	5	69	11	6	3	151	7
MEDIUM (0.70-1.39 kg)	395	95	183	88	363	86	182	92	549	87	191	91	1863	89
LARGE (1.40-1.80 kg)	4	-	1	-	31	7	3	2	7	1	6	3	52	2
JUMBO (> 1.80 kg)	-	-	-	-	3	-	1	-	2	-	4	2	10	-
TOTAL	417		209		420		198		629		209		2082	

Table 32. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1988/89.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
6	2	0.2	389	17.7	825	35.4
7	10	0.9	370	24.8	675	173.6
8	50	4.7	387	19.5	765	120.1
9	201	19.0	399	19.6	828	143.3
10	229	21.7	406	26.5	867	185.9
11	229	21.7	412	23.7	900	161.9
12	191	18.1	418	24.4	937	186.3
13	74	7.0	428	26.6	1009	187.7
14	41	3.9	434	27.5	1057	209.6
15	18	1.7	450	28.1	1215	225.7
16	6	0.6	452	28.5	1083	143.8
17	2	0.2	501	31.1	1925	459.6
18	1	-	568	-	2100	-
19	2	0.2	511	83.4	1950	989.9
TOTAL	1056					
MEAN			411	28.3	902	205.7
MEAN AGE 10.8						

Table 33. Age composition of commercial whitefish for each seasonal period from area IW, 1988/89.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	380	650	-	-	-	-	-	-	1	380	-	650	-
9	32	394	764	-	-	-	-	-	-	32	394	13.7	764	93.5
10	34	402	804	-	-	-	-	-	-	34	402	17.6	804	104.7
11	20	419	928	-	-	-	-	-	-	20	419	18.6	928	139.1
12	10	422	925	-	-	-	-	-	-	10	422	9.8	925	95.0
13	7	450	1121	-	-	-	-	-	-	7	450	22.7	1121	143.9
15	1	438	1100	-	-	-	-	-	-	1	438	-	1100	-
TOTAL	105			-			-			105				
MEAN		408	850		-	-		-	-		408	22.4	850	149.0
MEAN AGE	10.3			-			-			10.3				

Table 34. Age composition of commercial whitefish for each seasonal period from area IE, 1988/89.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	352	550	-	-	-	-	-	-	1	352	-	550	-
8	3	382	733	9	376	700	-	-	-	12	377	13.4	708	59.7
9	31	391	763	38	404	928	-	-	-	69	398	21.4	854	156.8
10	31	408	868	20	405	915	-	-	-	51	407	19.8	886	140.0
11	23	411	854	23	421	974	-	-	-	46	416	18.0	914	139.3
12	14	425	979	12	431	1088	-	-	-	26	428	19.0	1029	172.7
13	4	430	938	1	434	1100	-	-	-	5	431	24.2	970	135.1
14	-	-	-	2	468	1325	-	-	-	2	468	4.2	1325	35.4
15	-	-	-	1	470	1550	-	-	-	1	470	-	1550	-
TOTAL	107			106			-			213				
MEAN		405	845		411	949		-	-		408	24.4	897	173.1
MEAN AGE	10.2			10.1			-			10.1				

Table 35. Age composition of commercial whitefish for each seasonal period from area II, 1988/89.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	376	850	1	401	800	-	-	-	2	389	17.7	825	35.4
7	4	390	813	2	373	725	-	-	-	6	384	14.6	783	108.0
8	14	403	832	12	389	779	-	-	-	26	396	19.8	808	135.4
9	28	411	900	34	395	793	-	-	-	62	402	20.4	841	156.9
10	27	438	1081	28	413	891	-	-	-	55	425	27.4	985	219.0
11	16	440	1091	26	422	927	-	-	-	42	429	22.0	989	195.2
12	13	458	1246	5	447	1050	-	-	-	18	455	23.7	1192	295.7
13	2	481	1500	1	449	1000	-	-	-	3	470	19.4	1333	293.0
14	1	509	1800	-	-	-	-	-	-	1	509	-	1800	-
16	-	-	-	1	436	1050	-	-	-	1	436	-	1050	-
19	-	-	-	1	570	2650	-	-	-	1	570	-	2650	-
TOTAL	106			111			-			217				
MEAN		428	1025		410	879		-	-		418	31.6	950	259.4
MEAN AGE	9.8			9.9			-			9.8				

Table 36. Age composition of commercial whitefish for each seasonal period from area III, 1988/89.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	335	450	-	-	-	-	-	-	1	335	-	450	-
8	8	372	744	-	-	-	-	-	-	8	372	7.6	744	98.0
9	26	396	815	-	-	-	-	-	-	26	396	15.0	815	86.9
10	25	408	896	-	-	-	-	-	-	25	408	19.9	896	136.1
11	17	418	929	-	-	-	-	-	-	17	418	24.4	929	149.0
12	14	428	957	-	-	-	-	-	-	14	428	17.7	957	145.3
13	2	459	1150	-	-	-	-	-	-	2	459	26.2	1150	212.1
14	3	459	1283	-	-	-	-	-	-	3	459	17.8	1283	104.1
15	1	433	1300	-	-	-	-	-	-	1	433	-	1300	-
17	1	523	2250	-	-	-	-	-	-	1	523	-	2250	-
TOTAL	98			-			-			98				
MEAN		410	907		-	-		-	-		410	29.4	907	217.4
MEAN AGE	10.3			-			-			10.3				

Table 37. Age composition of commercial whitefish for each seasonal period from area IV, 1988/89.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	1	362	600	-	-	-	-	-	-	1	362	-	600	-
9	4	396	800	1	382	800	4	377	688	9	386	15.7	750	100.0
10	21	383	717	8	378	706	17	385	747	46	383	20.9	726	144.8
11	31	391	774	20	386	778	30	409	912	81	397	21.0	826	137.4
12	31	400	805	39	402	854	36	417	950	106	407	20.3	872	135.2
13	10	418	950	21	414	936	9	426	1044	40	418	17.6	964	115.5
14	3	419	867	13	417	946	5	432	1080	21	421	17.9	967	127.8
15	1	452	1050	3	439	1190	3	482	1483	7	459	28.2	1296	236.6
16	1	452	1050	-	-	-	2	485	1250	3	474	21.5	1183	125.8
17	-	-	-	-	-	-	1	479	1600	1	479	-	1600	-
19	-	-	-	1	452	1250	-	-	-	1	452	-	1250	-
TOTAL	103			106			107			316				
MEAN		397	796		403	869		413	938		404	26.0	868	176.1
MEAN AGE	11.4			12.2			11.7			11.8				

Table 38. Age composition of commercial whitefish for each seasonal period from area V, 1988/89.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	-	-	-	1	330	400	1	330	-	400	-
8	-	-	-	-	-	-	3	397	733	3	397	9.5	733	104.1
9	-	-	-	-	-	-	3	434	1000	3	434	8.5	1000	173.2
10	-	-	-	-	-	-	18	415	889	18	415	27.6	889	203.3
11	-	-	-	-	-	-	23	420	920	23	420	19.4	920	147.5
12	-	-	-	-	-	-	17	422	921	17	422	15.4	921	122.5
13	-	-	-	-	-	-	17	432	1006	17	432	33.5	1006	262.7
14	-	-	-	-	-	-	14	440	1054	14	440	26.8	1054	172.6
15	-	-	-	-	-	-	8	443	1106	8	443	31.3	1106	191.7
16	-	-	-	-	-	-	2	426	950	2	426	4.9	950	70.7
18	-	-	-	-	-	-	1	568	2100	1	568	-	2100	-
TOTAL	-			-			107			107				
MEAN		-	-		-	-		426	964		426	30.8	964	228.1
MEAN AGE	-			-			12.0			12.0				

Table 39. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1988/89.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	SD.	DRESSED WEIGHT (g) MEAN	SD.
320-329	1	-	322	-	400	-
330-339	5	0.2	332	2.3	500	117.3
340-349	9	0.4	344	3.6	522	103.4
350-359	28	1.3	353	3.1	566	57.8
360-369	46	2.2	364	3.1	628	72.0
370-379	128	6.1	374	2.9	694	62.9
380-389	219	10.5	384	3.0	751	74.0
390-399	263	12.6	394	3.0	797	74.0
400-409	355	17.1	404	3.0	849	69.0
410-419	300	14.4	414	2.8	910	79.6
420-429	233	11.2	424	2.8	960	84.0
430-439	166	8.0	434	3.0	1019	96.5
440-449	112	5.4	444	3.0	1088	105.3
450-459	87	4.2	454	3.0	1168	139.3
460-469	54	2.6	464	2.9	1219	129.0
470-479	31	1.5	474	3.0	1344	134.0
480-489	15	0.7	484	3.1	1413	174.7
490-499	14	0.7	496	2.6	1546	184.5
500-509	4	0.2	506	4.3	1650	264.6
510-519	3	0.1	512	2.9	1617	57.7
520-529	3	0.1	526	2.9	2233	375.3
540-549	1	-	540	-	2050	-
550-559	1	-	550	-	2600	-
560-569	2	-	565	4.2	2150	70.7
570-579	1	-	570	-	2650	-
580-589	1	-	584	-	2700	-
TOTAL	2082					
MEAN			412	29.5	907	215.1

Table 40. Length composition of commercial whitefish for each seasonal period from area IW, 1988/89.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
350-359	3	354	533	-	-	-	-	-	-	3	354	3.6	533	28.9
360-369	2	366	575	-	-	-	-	-	-	2	366	0.7	575	35.4
370-379	17	375	659	-	-	-	-	-	-	17	375	3.2	659	53.7
380-389	25	383	696	-	-	-	-	-	-	25	383	3.0	696	53.9
390-399	26	394	767	-	-	-	-	-	-	26	394	3.0	767	52.8
400-409	35	404	830	-	-	-	-	-	-	35	404	3.1	830	48.8
410-419	36	415	878	-	-	-	-	-	-	36	415	2.9	878	51.3
420-429	20	423	950	-	-	-	-	-	-	20	423	2.6	950	72.5
430-439	22	434	1007	-	-	-	-	-	-	22	434	3.3	1007	77.6
440-449	11	443	1041	-	-	-	-	-	-	11	443	2.6	1041	70.1
450-459	6	455	1150	-	-	-	-	-	-	6	455	2.9	1150	122.5
460-469	3	462	1233	-	-	-	-	-	-	3	462	2.6	1233	115.5
490-499	3	495	1400	-	-	-	-	-	-	3	495	3.5	1400	132.3
TOTAL	209			-			-			209				
MEAN		409	858		-	-		-	-		409	25.3	858	165.2

Table 41. Length composition of commercial whitefish for each seasonal period from area IE, 1988/89.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	-	-	-	1	330	700	-	-	-	1	330	-	700	-
340-349	-	-	-	2	348	675	-	-	-	2	348	0.0	675	35.4
350-359	3	355	617	2	357	625	-	-	-	5	355	2.3	620	57.0
360-369	2	360	575	5	366	710	-	-	-	7	364	3.4	671	69.9
370-379	16	375	694	15	374	747	-	-	-	31	374	2.8	719	66.7
380-389	22	384	732	25	384	790	-	-	-	47	384	3.0	763	74.8
390-399	32	394	778	32	394	856	-	-	-	64	394	3.1	817	78.8
400-409	35	404	834	36	404	885	-	-	-	71	404	2.8	860	67.4
410-419	25	414	874	36	414	951	-	-	-	61	414	3.0	920	82.3
420-429	31	423	924	21	424	1002	-	-	-	52	424	2.8	956	99.3
430-439	19	433	1000	13	432	1050	-	-	-	32	432	2.5	1020	92.3
440-449	9	442	1017	8	444	1156	-	-	-	17	443	2.4	1082	114.5
450-459	6	455	1158	7	453	1286	-	-	-	13	454	3.7	1227	148.1
460-469	4	465	1200	3	465	1267	-	-	-	7	465	3.1	1229	111.3
470-479	3	471	1133	2	471	1450	-	-	-	5	471	1.3	1260	194.9
480-489	-	-	-	1	480	1350	-	-	-	1	480	-	1350	-
490-499	1	497	1750	-	-	-	-	-	-	1	497	-	1750	-
TOTAL	208			209			-			417				
MEAN		409	865		406	920		-	-		408	24.8	892	164.6

Table 42. Length composition of commercial whitefish for each seasonal period from area II, 1988/89.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	346	500	-	-	-	-	-	-	1	346	-	500	-
350-359	-	-	-	4	353	588	-	-	-	4	353	2.9	588	47.9
360-369	1	362	500	6	364	667	-	-	-	7	364	3.6	643	83.8
370-379	4	375	700	12	374	696	-	-	-	16	374	3.4	697	64.5
380-389	14	385	764	26	385	748	-	-	-	40	385	3.3	754	77.9
390-399	21	394	760	30	395	797	-	-	-	51	394	2.9	781	66.3
400-409	30	404	837	40	404	831	-	-	-	70	404	3.3	834	65.8
410-419	23	414	909	33	415	880	-	-	-	56	414	2.9	892	85.7
420-429	18	425	950	15	423	940	-	-	-	33	424	3.0	945	87.8
430-439	17	435	1029	13	434	1008	-	-	-	30	434	3.2	1020	102.2
440-449	17	444	1124	12	445	1025	-	-	-	29	444	3.2	1083	109.6
450-459	16	455	1197	7	453	1093	-	-	-	23	454	3.2	1165	157.0
460-469	20	465	1243	6	463	1158	-	-	-	26	464	2.9	1223	148.5
470-479	12	474	1417	3	475	1333	-	-	-	15	474	3.0	1400	103.5
480-489	9	484	1506	-	-	-	-	-	-	9	484	3.4	1506	133.3
490-499	4	497	1675	1	499	1550	-	-	-	5	498	1.3	1650	122.5
500-509	1	509	1800	-	-	-	-	-	-	1	509	-	1800	-
510-519	-	-	-	1	510	1550	-	-	-	1	510	-	1550	-
520-529	1	528	2600	-	-	-	-	-	-	1	528	-	2600	-
540-549	1	540	2050	-	-	-	-	-	-	1	540	-	2050	-
570-579	-	-	-	1	570	2650	-	-	-	1	570	-	2650	-
TOTAL	210			210			-			420				
MEAN		430	1037		410	877		-	-		420	33.3	957	267.4

Table 43. Length composition of commercial whitefish for each seasonal period from area III, 1988/89.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	2	335	450	-	-	-	-	-	-	2	335	0.7	450	0.0
350-359	3	353	600	-	-	-	-	-	-	3	353	4.2	600	50.0
360-369	7	365	664	-	-	-	-	-	-	7	365	3.6	664	85.2
370-379	17	374	712	-	-	-	-	-	-	17	374	3.1	712	62.6
380-389	22	385	782	-	-	-	-	-	-	22	385	2.6	782	74.9
390-399	20	395	825	-	-	-	-	-	-	20	395	3.0	825	88.1
400-409	37	405	859	-	-	-	-	-	-	37	405	2.9	859	72.5
410-419	26	414	910	-	-	-	-	-	-	26	414	3.0	910	76.2
420-429	18	424	972	-	-	-	-	-	-	18	424	3.2	972	86.1
430-439	18	434	1033	-	-	-	-	-	-	18	434	3.5	1033	128.3
440-449	9	444	1139	-	-	-	-	-	-	9	444	3.2	1139	105.4
450-459	8	453	1206	-	-	-	-	-	-	8	453	2.4	1206	126.6
460-469	6	462	1183	-	-	-	-	-	-	6	462	2.9	1183	81.6
470-479	2	478	1250	-	-	-	-	-	-	2	478	0.7	1250	70.7
490-499	2	493	1550	-	-	-	-	-	-	2	493	3.5	1550	70.7
520-529	1	523	2250	-	-	-	-	-	-	1	523	-	2250	-
TOTAL	198			-			-			198				
MEAN		409	907		-	-		-	-		409	29.3	907	208.6

Table 44. Length composition of commercial whitefish for each seasonal period from area IV, 1988/89.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	-	-	-	1	322	400	-	-	-	1	322	-	400	-
330-339	1	333	500	-	-	-	-	-	-	1	333	-	500	-
340-349	3	343	483	-	-	-	1	340	550	4	343	3.8	500	40.8
350-359	8	353	544	3	352	550	1	350	500	12	352	2.8	542	51.5
360-369	10	363	595	6	365	633	6	362	575	22	363	2.8	600	55.6
370-379	19	374	674	12	374	683	15	374	700	46	374	2.5	685	55.6
380-389	29	384	738	30	383	773	20	383	750	79	384	3.0	754	67.1
390-399	42	394	775	28	393	802	20	394	865	90	394	2.9	803	69.4
400-409	41	404	843	39	403	864	26	403	871	106	404	3.0	858	66.1
410-419	20	413	888	38	413	937	41	414	951	99	414	2.6	933	76.7
420-429	16	424	959	26	423	985	29	423	998	71	423	2.6	985	71.6
430-439	10	432	1000	12	434	1029	17	433	1053	39	433	2.7	1032	89.9
440-449	4	441	1050	8	441	1106	13	443	1112	25	442	2.5	1100	94.6
450-459	2	452	1050	5	454	1280	9	454	1206	16	454	2.7	1209	136.9
460-469	2	464	1250	2	467	1300	2	462	1100	6	464	3.6	1217	136.6
470-479	1	472	1350	-	-	-	5	476	1330	6	475	2.3	1333	140.2
480-489	-	-	-	-	-	-	1	485	1500	1	485	-	1500	-
490-499	-	-	-	-	-	-	2	495	1475	2	495	0.0	1475	388.9
510-519	-	-	-	-	-	-	1	510	1650	1	510	-	1650	-
550-559	1	550	2600	-	-	-	-	-	-	1	550	-	2600	-
560-569	-	-	-	-	-	-	1	562	2200	1	562	-	2200	-
TOTAL	209			210			210			629				
MEAN		398	811		404	880		413	944		405	27.1	878	197.1

Table 45. Length composition of commercial whitefish for each seasonal period from area V, 1988/89.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	-	-	-	-	-	-	1	330	400	1	330	-	400	-
340-349	-	-	-	-	-	-	2	343	425	2	343	3.5	425	106.1
350-359	-	-	-	-	-	-	1	358	500	1	358	-	500	-
360-369	-	-	-	-	-	-	1	364	700	1	364	-	700	-
370-379	-	-	-	-	-	-	1	377	600	1	377	-	600	-
380-389	-	-	-	-	-	-	6	385	725	6	385	2.5	725	103.7
390-399	-	-	-	-	-	-	12	395	733	12	395	3.4	733	65.1
400-409	-	-	-	-	-	-	36	405	842	36	405	2.8	842	90.6
410-419	-	-	-	-	-	-	22	414	873	22	414	2.7	873	78.3
420-429	-	-	-	-	-	-	39	424	933	39	424	3.1	933	75.5
430-439	-	-	-	-	-	-	25	434	996	25	434	2.9	996	97.8
440-449	-	-	-	-	-	-	21	445	1090	21	445	2.6	1090	117.9
450-459	-	-	-	-	-	-	21	453	1093	21	453	2.6	1093	97.8
460-469	-	-	-	-	-	-	6	464	1217	6	464	2.0	1217	136.6
470-479	-	-	-	-	-	-	3	472	1283	3	472	2.1	1283	104.1
480-489	-	-	-	-	-	-	4	483	1200	4	483	2.4	1200	70.7
490-499	-	-	-	-	-	-	1	495	1400	1	495	-	1400	-
500-509	-	-	-	-	-	-	3	505	1600	3	505	4.5	1600	300.0
510-519	-	-	-	-	-	-	1	515	1650	1	515	-	1650	-
520-529	-	-	-	-	-	-	1	528	1850	1	528	-	1850	-
560-569	-	-	-	-	-	-	1	568	2100	1	568	-	2100	-
580-589	-	-	-	-	-	-	1	584	2700	1	584	-	2700	-
TOTAL	-			-			209			209				
MEAN		-	-		-	-		428	973		428	32.1	973	253.6

Table 46. Weight composition by market weight intervals for lake whitefish from commercial plant samples, Great Slave Lake, 1989/90.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	-	-	1	-	1	-	-	-	2	-
SMALL (0.45-0.69 kg)	22	5	27	6	37	9	49	12	54	13	17	4	206	8
MEDIUM (0.70-1.39 kg)	371	89	288	69	351	84	358	86	356	86	395	95	2119	85
LARGE (1.40-1.80 kg)	21	5	81	19	16	4	8	2	5	1	4	-	135	5
JUMBO (> 1.80 kg)	4	-	21	5	14	3	1	-	-	-	-	-	40	2
TOTAL	418		417		418		417		416		416		2502	

Table 47. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1989/90.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
6	8	0.6	384	27.2	713	131.5
7	41	3.1	383	25.2	744	175.3
8	54	4.1	395	28.1	793	200.1
9	174	13.1	403	23.8	823	158.7
10	368	27.8	411	24.2	889	176.4
11	306	23.1	415	26.1	914	187.2
12	224	16.9	426	29.5	997	232.0
13	83	6.3	441	30.9	1139	310.2
14	35	2.6	453	39.3	1215	359.9
15	19	1.4	490	48.3	1638	525.1
16	7	0.5	500	64.5	1677	699.5
17	4	0.3	545	40.2	2078	609.2
19	1	-	565	-	2180	-
TOTAL	1324					
MEAN			417	33.3	939	269.9
MEAN AGE 10.7						

Table 48. Age composition of commercial whitefish for each seasonal period from area IW, 1989/90.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	2	360	635	-	-	-	2	360	12.0	635	63.6
7	6	381	703	6	371	699	-	-	-	12	376	23.3	701	159.0
8	9	383	697	2	465	1280	-	-	-	11	398	34.4	803	256.9
9	10	406	855	7	431	1087	-	-	-	17	416	32.3	950	247.8
10	27	410	889	31	420	996	-	-	-	58	415	25.7	946	189.5
11	21	428	972	23	451	1187	-	-	-	44	440	25.7	1084	230.8
12	21	445	1122	18	463	1308	-	-	-	39	453	33.7	1208	315.4
13	8	466	1386	8	477	1409	-	-	-	16	472	30.6	1398	288.0
14	6	496	1568	6	490	1571	-	-	-	12	493	28.5	1570	332.8
15	2	516	1995	5	512	1749	-	-	-	7	513	12.9	1819	235.7
16	1	598	2840	2	508	1655	-	-	-	3	538	55.1	2050	692.2
17	1	512	1805	2	533	1758	-	-	-	3	526	19.3	1773	38.8
19	-	-	-	1	565	2180	-	-	-	1	565	-	2180	-
TOTAL	112			13			-			225				
MEAN		429	1037		447	1202		-	-		438	45.4	1120	378.9
MEAN AGE	10.8			1.2			-			11.0				

Table 49. Age composition of commercial whitefish for each seasonal period from area IE, 1989/90.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	1	424	1065	-	-	-	1	424	-	1065	-
8	1	388	710	2	373	700	-	-	-	3	378	14.6	703	170.1
9	9	388	734	20	407	862	-	-	-	29	401	26.6	822	171.8
10	40	400	790	43	417	964	-	-	-	83	409	20.0	880	164.9
11	27	412	848	17	429	1025	-	-	-	44	419	18.4	916	138.3
12	31	422	931	13	443	1043	-	-	-	44	428	26.1	964	187.6
13	5	426	938	7	464	1324	-	-	-	12	448	25.8	1163	237.3
14	-	-	-	3	459	1177	-	-	-	3	459	16.1	1177	183.2
15	-	-	-	1	535	2175	-	-	-	1	535	-	2175	-
TOTAL	113			107			-			220				
MEAN		409	844		425	1001		-	-		417	26.9	920	205.8
MEAN AGE	10.8			10.5			-			10.7				

Table 50. Age composition of commercial whitefish for each seasonal period from area II, 1989/90.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	2	385	753	-	-	-	-	-	-	2	385	35.4	753	208.6
7	22	389	773	2	393	800	-	-	-	24	389	23.0	775	172.8
8	16	405	884	5	388	783	-	-	-	21	401	25.7	860	191.6
9	11	415	909	22	403	806	-	-	-	33	407	20.0	840	127.6
10	26	422	958	47	412	855	-	-	-	73	415	27.3	892	219.8
11	18	426	999	26	420	918	-	-	-	44	422	29.1	951	253.4
12	11	444	1124	7	420	936	-	-	-	18	434	37.4	1051	354.4
13	4	481	1659	5	435	1135	-	-	-	9	455	37.7	1368	553.5
15	2	546	2295	-	-	-	-	-	-	2	546	53.0	2295	212.1
16	1	560	2340	-	-	-	-	-	-	1	560	-	2340	-
17	1	600	2990	-	-	-	-	-	-	1	600	-	2990	-
TOTAL	114			114			-			228				
MEAN		422	1004		412	873		-	-		417	36.6	938	337.9
MEAN AGE	9.6			10.1			-			9.9				

Table 51. Age composition of commercial whitefish for each seasonal period from area III, 1989/90.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
7	-	-	-	1	324	465	1	366	570	2	345	29.7	518	74.2
8	-	-	-	4	366	600	3	383	652	7	373	23.3	622	134.9
9	-	-	-	19	385	747	31	411	810	50	401	23.2	787	148.1
10	-	-	-	33	406	852	50	422	925	83	415	23.1	896	160.1
11	-	-	-	29	412	882	23	425	927	52	418	22.5	902	155.2
12	-	-	-	13	421	915	2	433	1080	15	422	20.3	937	167.6
13	-	-	-	6	429	972	2	457	1275	8	436	22.8	1048	154.8
14	-	-	-	2	443	1080	-	-	-	2	443	16.3	1080	198.0
15	-	-	-	2	491	1720	1	463	1580	3	482	60.2	1673	794.1
16	-	-	-	1	451	1075	-	-	-	1	451	-	1075	-
TOTAL	-			110			113			223				
MEAN		-	-		407	865		419	898		413	27.6	882	210.8
MEAN AGE	-			10.6			10.0			10.3				

Table 52. Age composition of commercial whitefish for each seasonal period from area IV, 1989/90.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
8	1	348	485	-	-	-	-	-	-	1	348	-	485	-
9	7	372	642	2	389	838	-	-	-	9	376	15.7	686	113.0
10	12	387	729	23	389	839	-	-	-	35	389	17.5	801	119.5
11	44	396	795	32	392	875	-	-	-	76	394	18.5	829	122.0
12	27	410	879	38	408	966	-	-	-	65	409	20.7	930	135.9
13	7	423	919	10	418	1063	-	-	-	17	420	19.0	1004	155.7
14	5	424	978	4	441	1219	-	-	-	9	432	29.4	1085	246.3
15	1	434	1170	1	424	1000	-	-	-	2	429	7.1	1085	120.2
16	1	415	910	-	-	-	-	-	-	1	415	-	910	-
TOTAL	105			110			-			215				
MEAN		400	818		402	929		-	-		401	23.3	875	161.2
MEAN AGE	11.3			11.4			-			11.4				

Table 53. Age composition of commercial whitefish for each seasonal period from area V, 1989/90.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	360	575	-	-	-	3	407	783	4	396	26.1	731	137.6
7	1	372	660	-	-	-	1	380	720	2	376	5.7	690	42.4
8	7	411	869	-	-	-	4	387	719	11	402	22.7	814	117.6
9	20	404	848	-	-	-	16	407	811	36	405	16.5	832	96.5
10	15	414	896	-	-	-	21	413	865	36	414	19.9	878	131.5
11	24	412	864	-	-	-	22	412	877	46	412	17.2	870	104.2
12	24	421	950	-	-	-	19	419	924	43	420	17.8	938	126.2
13	12	433	1010	-	-	-	9	420	926	21	427	19.3	974	161.6
14	1	401	760	-	-	-	8	422	934	9	419	16.2	915	101.0
15	3	454	1153	-	-	-	1	425	965	4	447	35.4	1106	245.5
16	1	463	1265	-	-	-	-	-	-	1	463	-	1265	-
TOTAL	109			-			104			213				
MEAN		416	907		-	-		413	872		414	20.8	890	138.1
MEAN AGE	10.8			-			10.8			10.8				

Table 54. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1989/90.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
310-319	2	-	314	2.1	425	70.7
320-329	2	-	326	2.8	438	38.9
330-339	5	0.2	335	2.1	497	20.2
340-349	16	0.6	344	3.0	510	57.9
350-359	22	0.9	353	3.0	584	66.8
360-369	53	2.1	364	2.9	629	71.9
370-379	116	4.6	374	2.9	688	70.5
380-389	189	7.6	384	3.1	752	73.7
390-399	295	11.8	394	2.9	786	73.5
400-409	405	16.2	404	2.9	842	72.6
410-419	330	13.2	414	2.7	892	76.7
420-429	333	13.3	423	2.8	950	83.9
430-439	237	9.5	433	2.7	1003	96.5
440-449	143	5.7	444	2.7	1083	114.0
450-459	90	3.6	453	2.8	1156	118.3
460-469	67	2.7	464	3.3	1270	120.3
470-479	55	2.2	473	2.7	1347	121.4
480-489	27	1.1	484	3.2	1469	162.2
490-499	35	1.4	495	3.0	1498	135.7
500-509	19	0.8	504	3.0	1653	192.4
510-519	24	1.0	514	3.5	1736	238.5
520-529	14	0.6	525	3.2	1979	147.0
530-539	5	0.2	533	2.3	2069	100.9
540-549	6	0.2	545	3.5	2112	470.3
550-559	3	0.1	556	3.2	2087	274.7
560-569	4	0.2	565	3.8	2434	300.8
570-579	1	-	577	-	2560	-
580-589	2	-	586	3.5	2723	392.4
590-599	1	-	598	-	2840	-
600-609	1	-	600	-	2990	-
TOTAL	2502					
MEAN			418	34.6	945	274.2

Table 55. Length composition of commercial whitefish for each seasonal period from area IW, 1989/90.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	-	-	-	1	338	505	-	-	-	1	338	-	505	-
340-349	1	344	455	1	345	460	-	-	-	2	345	0.7	458	3.5
350-359	1	350	630	4	354	555	-	-	-	5	353	3.3	570	53.3
360-369	7	363	631	3	367	695	-	-	-	10	364	2.9	651	63.6
370-379	9	373	672	3	375	675	-	-	-	12	374	2.3	673	54.5
380-389	11	383	705	8	383	741	-	-	-	19	383	2.8	720	64.9
390-399	16	394	776	9	395	830	-	-	-	25	395	3.3	795	63.2
400-409	16	403	830	12	404	831	-	-	-	28	403	2.5	831	51.2
410-419	21	414	870	13	415	933	-	-	-	34	414	2.8	894	70.2
420-429	29	423	960	18	423	977	-	-	-	47	423	2.9	966	82.5
430-439	20	434	1034	15	435	1080	-	-	-	35	434	3.2	1054	96.6
440-449	14	444	1090	14	444	1131	-	-	-	28	444	2.9	1111	113.7
450-459	12	453	1143	9	454	1198	-	-	-	21	454	2.7	1166	109.6
460-469	10	465	1294	24	464	1283	-	-	-	34	464	3.5	1286	102.7
470-479	12	472	1330	18	474	1383	-	-	-	30	473	2.6	1362	91.1
480-489	5	483	1454	8	484	1483	-	-	-	13	483	2.4	1472	179.7
490-499	5	496	1483	21	495	1483	-	-	-	26	495	3.1	1483	99.2
500-509	5	504	1630	7	505	1684	-	-	-	12	505	2.4	1662	157.9
510-519	4	515	1863	12	515	1658	-	-	-	16	515	3.8	1709	197.8
520-529	4	523	1955	4	525	1904	-	-	-	8	524	2.9	1929	153.7
530-539	2	533	2020	1	532	1955	-	-	-	3	532	2.5	1998	40.4
540-549	1	543	2245	2	545	1678	-	-	-	3	544	3.2	1867	331.8
550-559	2	558	2240	-	-	-	-	-	-	2	558	0.7	2240	99.0
560-569	1	568	2870	1	565	2180	-	-	-	2	567	2.1	2525	487.9
590-599	1	598	2840	-	-	-	-	-	-	1	598	-	2840	-
TOTAL	209			208			-			417				
MEAN		434	1073		450	1196		-	-		442	45.7	1134	374.1

Table 56. Length composition of commercial whitefish for each seasonal period from area IE, 1989/90.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	1	333	480	-	-	-	-	-	-	1	333	-	480	-
340-349	2	343	483	-	-	-	-	-	-	2	343	1.4	483	3.5
360-369	-	-	-	2	361	585	-	-	-	2	361	0.0	585	77.8
370-379	10	374	638	4	373	678	-	-	-	14	374	3.0	649	56.9
380-389	21	385	739	10	386	783	-	-	-	31	385	3.2	753	75.7
390-399	39	395	768	16	396	793	-	-	-	55	395	2.8	775	58.8
400-409	43	405	823	25	405	881	-	-	-	68	405	3.0	844	68.0
410-419	29	413	876	36	415	916	-	-	-	65	414	2.9	898	56.2
420-429	26	425	926	33	425	1012	-	-	-	59	425	2.9	974	87.1
430-439	22	432	984	21	433	1036	-	-	-	43	433	2.4	1010	80.4
440-449	10	443	1006	14	444	1101	-	-	-	24	444	3.2	1062	97.8
450-459	2	458	1218	14	454	1158	-	-	-	16	454	4.0	1166	108.5
460-469	1	462	1375	9	464	1226	-	-	-	10	464	2.6	1241	91.2
470-479	1	478	1535	4	473	1396	-	-	-	5	474	4.0	1424	97.4
480-489	1	487	1385	6	486	1400	-	-	-	7	486	3.3	1398	68.3
490-499	-	-	-	5	494	1502	-	-	-	5	494	3.3	1502	284.4
500-509	-	-	-	4	504	1534	-	-	-	4	504	4.3	1534	160.0
510-519	1	513	1910	2	514	1573	-	-	-	3	513	2.5	1685	195.6
520-529	-	-	-	2	529	1953	-	-	-	2	529	0.0	1953	46.0
530-539	-	-	-	1	535	2175	-	-	-	1	535	-	2175	-
540-549	-	-	-	1	540	1785	-	-	-	1	540	-	1785	-
TOTAL	209			209			-			418				
MEAN		409	854		430	1033		-	-		419	30.5	943	229.5

Table 57. Length composition of commercial whitefish for each seasonal period from area II, 1989/90.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	-	-	-	1	335	500	-	-	-	1	335	-	500	-
340-349	3	342	513	2	344	503	-	-	-	5	343	3.3	509	37.3
350-359	3	353	532	2	355	608	-	-	-	5	354	3.7	562	59.5
360-369	5	364	604	4	366	663	-	-	-	9	365	3.5	630	59.8
370-379	5	374	630	12	374	689	-	-	-	17	374	3.6	672	60.1
380-389	16	384	736	13	385	758	-	-	-	29	385	3.0	746	58.6
390-399	28	394	783	19	393	779	-	-	-	47	394	2.8	781	58.0
400-409	41	403	829	43	404	823	-	-	-	84	404	2.8	826	65.1
410-419	30	413	879	30	414	893	-	-	-	60	413	2.5	886	68.5
420-429	18	423	917	37	423	910	-	-	-	55	423	2.6	913	65.7
430-439	12	434	1043	18	432	971	-	-	-	30	433	2.5	1000	97.7
440-449	9	444	1109	19	443	1061	-	-	-	28	443	2.3	1077	116.6
450-459	7	452	1125	4	453	1264	-	-	-	11	452	2.5	1175	109.9
460-469	5	466	1402	3	465	1152	-	-	-	8	466	3.3	1308	151.1
470-479	2	470	1305	2	471	1370	-	-	-	4	471	1.0	1338	42.7
480-489	2	481	1585	-	-	-	-	-	-	2	481	1.4	1585	84.9
490-499	2	492	1560	-	-	-	-	-	-	2	492	0.0	1560	35.4
500-509	3	503	1777	-	-	-	-	-	-	3	503	4.2	1777	325.1
510-519	4	512	1894	1	510	1680	-	-	-	5	512	1.5	1851	374.0
520-529	4	525	2091	-	-	-	-	-	-	4	525	3.2	2091	118.2
530-539	1	535	2175	-	-	-	-	-	-	1	535	-	2175	-
540-549	1	545	2775	-	-	-	-	-	-	1	545	-	2775	-
550-559	1	552	1780	-	-	-	-	-	-	1	552	-	1780	-
560-569	2	564	2343	-	-	-	-	-	-	2	564	5.7	2343	3.5
570-579	1	577	2560	-	-	-	-	-	-	1	577	-	2560	-
580-589	2	586	2723	-	-	-	-	-	-	2	586	3.5	2723	392.4
600-609	1	600	2990	-	-	-	-	-	-	1	600	-	2990	-
TOTAL	208			210			-			418				
MEAN		422	1009		412	880		-	-		417	37.9	944	344.4

Table 58. Length composition of commercial whitefish for each seasonal period from area III, 1989/90.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	-	-	-	2	326	438	-	-	-	2	326	2.8	438	38.9
350-359	-	-	-	2	351	550	-	-	-	2	351	0.0	550	91.9
360-369	-	-	-	8	364	558	2	366	578	10	364	2.7	562	26.9
370-379	-	-	-	15	375	648	5	373	624	20	374	3.3	642	50.9
380-389	-	-	-	17	384	728	10	385	709	27	385	3.4	721	68.6
390-399	-	-	-	25	393	750	16	394	720	41	394	3.1	738	72.9
400-409	-	-	-	41	404	857	22	404	789	63	404	3.3	833	86.1
410-419	-	-	-	21	414	877	43	414	853	64	414	2.7	861	91.6
420-429	-	-	-	30	424	985	35	423	905	65	424	2.7	942	100.8
430-439	-	-	-	23	434	962	34	433	973	57	433	2.8	968	102.9
440-449	-	-	-	11	444	1150	13	443	1018	24	443	2.6	1078	108.7
450-459	-	-	-	11	453	1159	14	453	1099	25	453	2.6	1125	141.7
460-469	-	-	-	-	-	-	6	463	1236	6	463	3.2	1236	195.9
470-479	-	-	-	1	470	1460	6	474	1264	7	473	2.9	1292	215.8
480-489	-	-	-	1	489	1680	2	485	1578	3	486	3.8	1612	239.9
540-549	-	-	-	1	549	2510	-	-	-	1	549	-	2510	-
TOTAL	-			209			208			417				
MEAN		-	-		409	878		421	906		415	26.3	892	206.2

Table 59. Length composition of commercial whitefish for each seasonal period from area IV, 1989/90.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
310-319	1	312	375	1	315	475	-	-	-	2	314	2.1	425	70.7
330-339	2	334	500	-	-	-	-	-	-	2	334	0.7	500	35.4
340-349	4	344	500	2	348	600	-	-	-	6	345	3.3	533	82.1
350-359	5	354	557	5	353	660	-	-	-	10	354	2.8	609	73.0
360-369	11	363	610	8	365	731	-	-	-	19	364	2.8	661	79.4
370-379	19	374	672	24	375	772	-	-	-	43	374	2.7	728	69.6
380-389	29	383	723	30	385	845	-	-	-	59	384	3.0	785	79.0
390-399	36	394	771	39	393	881	-	-	-	75	394	2.9	828	83.4
400-409	33	404	830	38	404	939	-	-	-	71	404	2.9	889	73.7
410-419	22	415	910	25	414	993	-	-	-	47	414	2.6	954	73.3
420-429	22	423	947	18	423	1039	-	-	-	40	423	2.8	988	80.8
430-439	17	434	1001	4	433	1100	-	-	-	21	433	2.6	1020	96.2
440-449	7	443	1149	4	444	1213	-	-	-	11	443	2.7	1172	119.6
450-459	-	-	-	3	451	1267	-	-	-	3	451	1.2	1267	38.2
460-469	-	-	-	1	469	1150	-	-	-	1	469	-	1150	-
470-479	-	-	-	3	472	1433	-	-	-	3	472	4.0	1433	62.9
480-489	-	-	-	1	481	1325	-	-	-	1	481	-	1325	-
490-499	-	-	-	2	494	1613	-	-	-	2	494	2.8	1613	123.7
TOTAL	208			208			-			416				
MEAN		398	806		400	920		-	-		399	25.3	863	170.0

Table 60. Length composition of commercial whitefish for each seasonal period from area V, 1989/90.

LENGTH INTERVAL (mm)	WINTER			SPRING			FALL			TOTAL				
	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
340-349	1	348	535	-	-	-	-	-	-	1	348	-	535	-
360-369	2	364	595	-	-	-	1	365	605	3	364	4.0	598	20.8
370-379	5	374	716	-	-	-	5	374	692	10	374	2.8	704	70.8
380-389	12	384	741	-	-	-	12	384	740	24	384	2.9	741	59.3
390-399	27	395	784	-	-	-	25	394	763	52	394	2.7	774	59.3
400-409	42	405	834	-	-	-	49	404	824	91	404	2.8	828	62.7
410-419	32	413	884	-	-	-	28	414	864	60	414	2.5	875	65.7
420-429	34	423	944	-	-	-	33	423	925	67	423	2.7	934	61.1
430-439	23	433	999	-	-	-	28	432	993	51	433	2.1	996	87.9
440-449	14	444	1059	-	-	-	14	444	1041	28	444	2.7	1050	113.1
450-459	9	454	1157	-	-	-	5	453	1119	14	453	2.2	1143	108.4
460-469	4	462	1203	-	-	-	4	464	1280	8	463	2.3	1241	132.9
470-479	4	473	1278	-	-	-	2	472	1135	6	473	1.2	1230	111.8
480-489	1	480	1425	-	-	-	-	-	-	1	480	-	1425	-
TOTAL	210			-			206			416				
MEAN		416	906		-	-		415	886		415	21.6	896	145.9